

Building on the success of our high power Ku-band diplexers launched in the last three years, MtronPTI is now introducing a high power multiplexer in L, S and C bands for broadband communication datalinks used in applications like manned and unmanned aircraft, on the move and fixed ground stations, shipboard, beyond line-of-sight wideband satellite communications and ground unmanned vehicles markets. This multiplexer incorporates highly selective, low loss and high power handling bandpass filters that provide isolation of better than -80dB between the datalink feeds.

Features:

- Low signal loss <1.5dB
- 80dB band to band Isolation
- 80W CW Power Handling

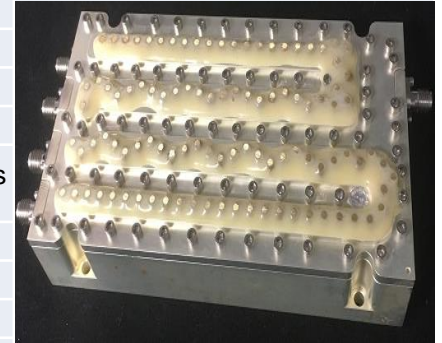
Applications:

- UAS
- Satcom
- Electronic Warfare Datalinks
- Deep Space Satellite Communication Links †

† : MtronPTI has a heritage with space level filter assemblies and supports full space level qualification requirements



Passband 1	2.00 to 2.70GHz
Passband 2	3.00 to 3.90GHz
Passband 3	4.20 to 4.95GHz
Passband 4	5.25 to 6.00GHz
Passband Insertion Loss	1.5dB max.
Return Loss@ passband	12dB min.
Band to Band Isolation	80dB min.
Harmonic Rejection	40dB min.
Group Delay Variation	5.0 nS p-p max over any 135MHz within Passband,13ns max over any passband
Maximum Power Handling	80W CW
RF Impedance All ports	50 ohms
Operating Temperature	-40°C to +70°C
Storage Temperature	-55°C to +105°C
Altitude	42,000 Feet
Weight	< 600 grams
Size	5.12"x 2.74"x 1.2" max height, does not include the SMA connectors
Tolerance on length and width	.XX+/- .01



Representative Plots

